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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,703	02/07/2002	Myron K. Gordin	P04723US1	2528

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DES MOINES, IA 50309-2721

EXAMINER

NEGRON, ISMAEL

ART UNIT

PAPER NUMBER

2875

DATE MAILED: 06/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	
	10/072,703	GORDIN ET AL.	
	Examiner	Art Unit	
	Ismael Negron	2875	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 October 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,7-9 and 11-22 is/are rejected.
- 7) ☒ Claim(s) 2-6 and 10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 October 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>20021101, 20031110</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's preliminary amendment filed on October 10, 2002 has been entered. No claims have been amended, cancelled or added. Claims 1-22 are still pending in this application, with claim 1 being independent.

Title

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: **HID Lighting Fixture with Quick-Disconnect Light Source Mount.**

Drawings

3. The drawings were received on October 10, 2002. These drawings are not acceptable. See Section of the instant Office Action.

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "**24**" has been used to designate both "*lamp assembly*" (page 5, line 15) and "*lamp*" (page 5, line 17).

In addition, note the following:

- reference character "**28**", used to designate "*connector assembly*" (page 5, line 12) and "*connection assembly*" (page 5, line 26);

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- reference character **"14"**, used to designate *"adjustable mounting elbow"* (page 5, line 13) and *"cone"* (page 5, line 26);
- reference character **"18"**, used to designate *"reflector"* (page 5, line 13) and *"reinforcing ring"* (page 5, line 27);
- reference character **"22"**, used to designate *"lamp holder assembly"* (page 5, line 14) and *"lamp holder"* (page 5, line 28);
- reference character **"26"**, used to designate *"paraboloid assembly"* (page 5, line 16), *"paraboloid reflector assembly"* (page 5, lines 28 and 29) and *"reflector"* (page 10, line 12);
- reference character **"102L"**, used to designate *"leads (left)"* (page 5, line 21) and *"finger-safe connection"* (page 6, line 4);
- reference character **"102R"**, used to designate *"leads (right)"* (page 5, lines 21 and 22) and *"finger-safe connection"* (page 6, line 4);
- reference character **"16"**, used to designate *"box assembly"* (page 5, line 14), *"igniter box"* (page 6, lines 13 and 14), *"box"* (page 7, line 1) and *"housing"* (page 7, line 8);
- reference character **"304L"**, used to designate *"finger-safe connection"* (page 6, line 4), *"male finger-safe connection"* (page 8, line 13) and *"fixed connection"* (page 12, line 2);
- reference character **"304R"**, used to designate *"finger-safe connection"* (page 6, line 4), *"male finger-safe connection"* (page 8, line 13) and *"fixed connection"* (page 12, line 2);

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- reference character "**112**", used to designate "*coating*" (page 10, line 9) and "*reflector*" (page 10, line 25);
- reference character "**106**", used to designate "*clips*" (page 10, line 4) and "*spring clips*" (page 11, line 28);
- reference character "**134**", used to designate "*receivers*" (page 10, line 27) and "*lamp holders*" (page 11, line 12); and
- reference character "**304**", used to designate "*male connection*" (page 8, line 15) and "*finger-safe connection*" (page 12, lines 11 and 12).

The applicant is advised that the reference characters must be properly applied, with no single reference character being used for two different parts or for a given part and a modification of such part. See MPEP §608.01(g). Correction is required.

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference character(s) mentioned in the description: **134**.

6. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "**102**" and "**102L**" have both been used to designate the left lamp lead (Figures 4 and 6A).

In addition, note the following:

- reference numbers "**102**" and "**102R**" in Figures 4 and 6A;

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- reference numbers “**103**” and “**103L**” in Figures 4 and 6A;
- reference numbers “**103**” and “**103R**” in Figures 4 and 6A;
- reference numbers “**104**” and “**104L**” in Figures 4 and 6A;
- reference numbers “**104**” and “**104R**” in Figures 4 and 6A;
- reference numbers “**106**” and “**106L**” in Figures 4, 5 and 6A; and
- reference numbers “**106**” and “**106R**” in Figures 4, 5 and 6A.

7. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled “Replacement Sheet” in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

8. Applicant is further advised that this action only exemplifies the objections to the drawings, applicant's cooperation is requested in correcting all the occurrences of the cited, or any other errors of which applicant may become aware in the specification.

Specification

9. The disclosure is objected to because of the following informalities: page 6, lines 16 and 17 should be amended to read --*Likewise, elbow 14 is substantially shown in detail at ~~Figures 1~~ Figures 1 and 2. It too functions conventionally.*--.

Appropriate correction is required.

10. Due to the extensive amendments to the description already entered a substitute specification, excluding the claims, is strongly suggested.

A substitute specification filed under 37 CFR 1.125(a) must only contain subject matter from the original specification and any previously entered amendment under 37 CFR 1.121. If the substitute specification contains additional subject matter not of record, the substitute specification must be filed under 37 CFR 1.125(b) and (c)

Claim Objections

11. Claim 2 is objected to because of the following informalities: it fails to identify the claim from which it is dependent. Appropriate correction is required.

For examination purposes the Examiner assumed that claim 2 depended on independent claim 1, as claim 1 is the only claim preceding claim 2.

Claim Rejections - 35 USC § 112

12. Claim 22 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 22 recites a method of redirecting light back towards a portion of the arc-tube in a manner to encourage isothermal conditions in the arc-tube, however, no such method is described by the instant application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

13. Claims 1, 7-9, 11, 16-18, and 21 rejected under 35 U.S.C. 102(b) as being anticipated by GORDIN (U.S. Pat. 5,707,142).

GORDIN discloses a luminaire assembly having:

- **a double-ended unjacketed HID light source**, Figure 2, reference number 20;
- **a bulb cone**, Figure 3, reference number 15;
- **a mounting connection**, Figure 3, reference number 17;

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- **a support**, Figure 3, reference number 14;
- **the mounting connection being adapted to mount the bulb cone to the support**, column 1, lines 39-44;
- **a reflector**, Figure 2, reference number 12;
- **the reflector having a portion adapted for connection to the bulb cone**, Figure 3, reference number 26;
- **the reflector also having an opening**, Figure 2, reference number 18;
- **the opening being adapted to be covered by a lens**, column 1, lines 44-47;
- **a mount**, Figure 2, reference numbers 22 and 24;
- **the mount being for receiving the light source**, column 1, lines 48-53;
- **electrical power connection for providing power**, inherent;
- **the mount having first and second spaced apart receivers**, Figure 2, reference numbers 22 and 24;
- **each receiver being supported by the reflector**, column 1, lines 49-51;
- **the receivers being positioned to hold the light source in a desired position inside the reflector**, inherent;
- **the receivers providing releasable support of the light source**, inherent;

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- **the receivers providing rotation of the light source to a desired orientation**, inherent;
- **UV attenuation means**, as necessitated by the disclose light source; and
- **the light source being an arc-tube with 1000 watts of more**, column 4, lines 33 and 34.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. Claims 12-15, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over GORDIN (U.S. Pat. 5,707,142) in view of M^CINGVALE, Jr. et al. (U.S. Pat. 4,918,582).

GORDIN discloses a luminaire assembly having:

- **a double-ended unjacketed HID light source**, Figure 2, reference number 20;
- **a bulb cone**, Figure 3, reference number 15;
- **a mounting connection**, Figure 3, reference number 17;
- **a support**, Figure 3, reference number 14;

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- **the mounting connection being adapted to mount the bulb cone to the support**, column 1, lines 39-44;
- **a reflector**, Figure 2, reference number 12;
- **the reflector having a portion adapted for connection to the bulb cone**, Figure 3, reference number 26;
- **the reflector also having an opening**, Figure 2, reference number 18;
- **the opening being adapted to be covered by a lens**, column 1, lines 44-47;
- **a mount**, Figure 2, reference numbers 22 and 24;
- **the mount being for receiving the light source**, column 1, lines 48-53;
- **electrical power connection for providing power**, inherent;
- **the mount having first and second spaced apart receivers**, Figure 2, reference numbers 22 and 24;
- **each receiver being supported by the reflector**, column 1, lines 49-51;
- **the receivers being positioned to hold the light source in a desired position inside the reflector**, inherent;
- **the receivers providing releasable support of the light source**, inherent;

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- **the receivers providing rotation of the light source to a desired orientation**, inherent;
- **UV attenuation means**, as necessitated by the disclose light source;
- **the light source being an arc-tube with 1000 watts of more**, column 4, lines 33 and 34;
- **an ignitor circuit for the light source**, inherent;
- **a housing for electrical circuits required by the light source**, Figure 1, reference number 16;
- **the housing being mounted on or adjacent the luminaire assembly**, as seen in Figures 1, 3 and 4; and
- **the housing being mounted to the bulb cone**, as seen in Figure 3 and 4.

GORDIN discloses all the limitations of the claims, except:

- a reflective member located in a portion of the light source;
- the ignitor circuit being adapted to be segregated from a ballast circuit for the light source;
- the ignitor circuit being closer to the light source than the ballast circuit;
- the receivers leaving no exposed electrical surface when the light source is connected to a power source;

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- the electrically conducting surfaces being accessible by human fingers when the light source is disconnected from the power source.

M^CINGVALE, Jr. et al. discloses lamp electrical terminals and sockets having;

- **a mount for receiving a lamp**, Figure 1, reference numbers 18a and 18b;
- **electrical power connection for providing power**, Figure 1, reference numbers 22a and 22b;
- **the mount having first and second spaced apart receivers**, Figure 1, reference numbers 18a and 18b;
- **the receivers being positioned to hold the light source in a desired position inside a reflector**, as seen in Figures 3, 4 and 6;
- **the receivers providing releasable support of the light source**, column 6, lines 46-63;
- **the receivers including a spring clip**, Figure 1, reference numbers 20a and 20b;
- **the spring clips being received totally inside the receivers with no electrical surface exposed**, as seen in Figure 2;
- **the electrical surfaces being inaccessible by human fingers when the light source is disconnected from the power source**, as seen in Figure 2.

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It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to use the terminal/socket combination of M^CINGVALE, Jr. et al. as the receivers of GORDIN to provide the luminaire of GORDIN with a safer, reliable and easy to remove/insert lamp connection, as per the teachings of M^CINGVALE, Jr. et al. (see column 6, lines 46-63).

Regarding the a reflective member located in a portion of the light source for redirecting light energy from such light source, the Examiner takes Official Notice that the use of reflective coatings applied to the envelope of light sources is old and well known in the art. Such coatings are used to increased the efficiency of light sources by redirecting towards a target of illumination light that would otherwise be directed towards the back of the luminaire, or other unwanted areas.

Relevant Prior Art

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Marsden (U.S. Pat. 1,137,773), **Roth** (U.S. Pat. 3,832,540), **Wandler** (U.S. Pat. 4,164,783), **Spitler et al.** (U.S. Pat. 5,510,964) and **Sutherland** (U.S. Pat. 5,532,911) disclose light source electrical connection means, such means providing easy insertion and removal of the light source.

Allowable Subject Matter

16. Claims 2-6 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

17. The following is a statement of reasons for the indication of allowable subject matter:

Applicant teaches HID luminaries having a reflector, a bulb cone and a double-ended unjacketed HID light source located inside the reflector. The reflector includes an opening adapted for receiving a lens. The reflector further includes means for receiving and electrically connecting the light source, such means including a frame positioned inside an interior chamber of the bulb cone. The frame includes a receiver adapted to hold a first connecting portion, and a guide for guiding a complementary second connecting portion into an operative, but manually releasable, finger-safe electrical connection with the first connecting portion.

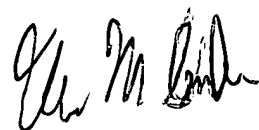
Conclusion

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ismael Negron whose telephone number is (571) 272-2376. The examiner can normally be reached on Monday-Friday from 9:00 A.M. to 6:00 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea, can be reached on (571) 272-2378. The facsimile machine number for the Art Group is (703) 872-9306.

19. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, go to <http://pair-direct.uspto.gov>. Should you have questions on access to Private PAIR system, contact the Electronic Business Center (EBC) toll-free at 866-217-9197.



THOMAS M. SEMBER
PRIMARY EXAMINER



Inr

June 17, 2004